



Split Stem and Leaf Plot for Hours Slept

How to Get a Random Sample from CensusAtSchool

Go to the CensusAtSchool [Random Sampler](#) to download a sample.X

Reference year: *(select year)* **Sample size:** *At least 40 students both male and female*

Select questions: *Hours of sleep*

Location: *Select location*

Year level: *(select a range of year levels)*

To protect privacy there is a rule built into the sampler that the requested sample size cannot exceed 10% entered.

Task:

- 1.** In the CensusAtSchool random sample find data for Hours of Sleep on a School Night.

Record the values below: NOTE: Any outliers should be removed from your data set

Before you complete this activity.

- 2.** What are the only possible stems we can have for this data?

NOTE: Stem and leaf plots are useful to see patterns in the data. However, when the data is not spread out this pattern becomes difficult to see. To get around this the stems can be split. e.g. numbers from 10 to 19 are split into stems of 1 (for numbers 10 to 14), and 1* (for numbers 15 to 19)

- 3.** Place your data into the following stem and leaf plots. Don't forget to show your key.

Hours slept

Unordered stem and leaf

0	
0*	
1	
1*	

Ordered stem and leaf

0	
0*	
1	
1*	

Key:

- 4.** From your ordered stem and leaf plot comment on the most common number of hours spent sleeping on a school night.

- 5.** Name two ways this investigation could be extended.

CensusAtSchool Random Sampler <http://www.cas.abs.gov.au/cgi-local/cassampler.pl>

Access other similar lessons at <http://www.abs.gov.au/censusatschool>